GOVERNMENT OF INDIA
EARTH SCIENCES
LOK SABHA

UNSTARRED QUESTION NO:1810
ANSWERED ON:04.05.2016
Study of Tropical Countries
Khadse Smt. Raksha Nikhil

Will the Minister of EARTH SCIENCES be pleased to state:

(a) whether the Government proposes to study the tropical countries that have high sea surface temperatures as ocean thermal energy conversion is a good option for the country;

(b) if so, the details thereof;

(c) whether the Government also proposes to study the designing scale up ocean energy devise including wave, currents and tidal and their techno-commercial viabilities; and

(d) if so, the details thereof?

Answer

THE MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(SHRI. Y. S. CHOWDARY)

(a) Yes Madam, the National Institute of Ocean Technology (NIOT), an autonomous Institute under Ministry of Earth Sciences has carried out experimental studies pertaining to Ocean Thermal Energy Conversion (OTEC) in India which is a tropical country.

(b) NIOT has designed an OTEC turbine of small capacity and has initiated studies on running the hybrid cycle of desalination and OTEC together.

(c) Yes, Madam. NIOT has initiated design of small prototypes for wave and marine current devices for exploring the possibility of scaling up.

(d) Small floating wave energy devices and hydrokinetic turbines have been studied and tested successfully.